

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

ESDLC5V0PB8

Features

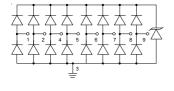
- Ultra Low Capacitance 0.29pF typical
- Low operating Voltage: 5.0 V
- Low clamping voltage
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5(Lightning) 5A (8/20us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking:0508P

Maximum Ratings

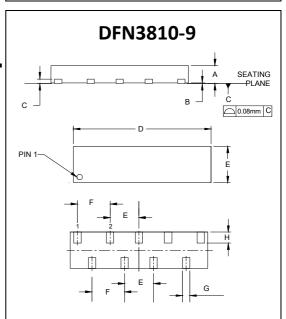
unction Temperature: -55°C to +125°C
 StorageTemperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Contact	\/	± 8	KV
	Air	V _{ESD}	± 15	
Peak Pulse Power (8/20us)		P_{pk}	100	W
Peak Pulse Current (8/20us)		I _{pp}	5	Α

Internal Structure



ESD Protection Device



	DIMENSIONS				
DIM	INCHES		M	NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005		0.130		
D	0.146	0.154	3.70	3.90	
E	0.031 BSC		0.800 BSC		
F	0.035 BSC		0.900 BSC		
G	0.006	0.010	0.15	0.25	
H	0.010	0.014	0.25	0.35	



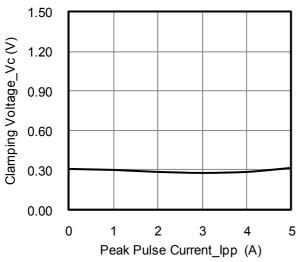
ESDLC5V0PB8

Electrical Characteristics (T_A=25°C unless otherwise specified)

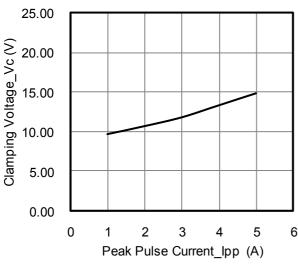
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5	V	Any I/O pin to ground
Breakdown Voltage	VBR	6			V	IT = 1mA, any I/O pin to ground
Reverse Leakage Current	I _R			0.5	μA	VRWM = 5V, any I/O pin to ground
Clamping Voltage	Vc			15	V	IPP = 1A (8 x 20μs pulse), any I/O pin to ground
Clamping Voltage	Vc			20	V	IPP = 5A (8 x 20μs pulse), any I/O pin to ground
Junction Capacitance	Сı		0.29	0.35	pF	VR = 0V, f = 1MHz, any I/O pin to ground



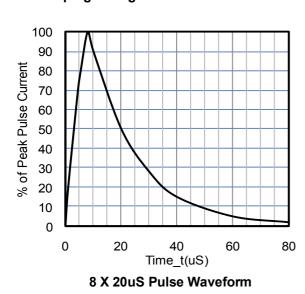
Typical Performance Characteristics (T_A=25°C unless otherwise Specified)

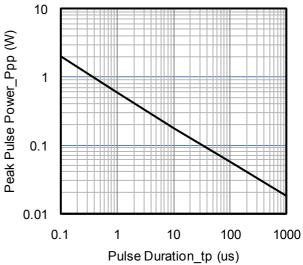


Junction Capacitance vs. Reverse Voltage

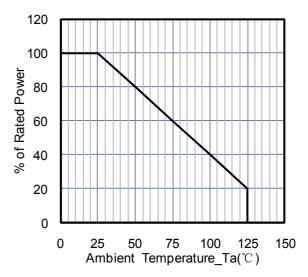


Clamping Voltage vs. Peak Pulse Current

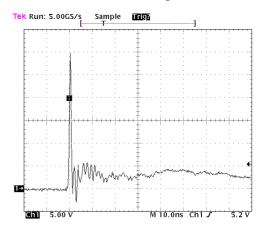




Peak Pulse Power vs. Pulse Time



Power Derating Curve



ESD Clamping Voltage

8 kV Contact per IEC61000-4-2



Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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